



NOTES: (UNLESS OTHERWISE SPECIFIED)

1. THIS IS A CRYOGENIC VACUUM COMPONENT.
2. WELDING PROCEDURE: PER VENDOR SPECIFICATION WITH LBNL APPROVAL.
3. CLEANING PROCEDURE : PER VENDOR SPECIFICATION WITH LBNL APPROVAL.
4. PACKAGING AND STORAGE PROCEDURE OF THE COMPONENTS: PER VENDOR SPECIFICATION WITH LBNL APPROVAL.
5. DIMENSIONS AND TOLERANCING PER ANSI Y14.5M-1982. UNITS ARE IN INCHES [mm] UNLESS OTHERWISE SPECIFIED.
6. USE OF SULFUR OR SILICONE BEARING OILS, LUBRICANTS, OR COOLANTS ARE STRICTLY PROHIBITED.
7. USE OF RESIN OR RUBBER BONDED ABRASIVES UNDER POWER IS STRICTLY PROHIBITED. USE VITREOUS BONDED ABRASIVES ONLY.
8. VENDOR SUGGESTED CHANGES TO WELD PREPS; SUBJECT TO LBNL APPROVAL.
9. FITTINGS MAY BE USED IN PLACE OF BENDS; SUBJECT TO LBNL APPROVAL.
10. VENDOR SUGGESTED CHANGES TO TOLERANCES TO FACILITATE FABRICATION OR ASSEMBLY; SUBJECT TO LBNL APPROVAL.
11. REMOVE ALL THE BURRS AND REAM THE ENDS FOR CIRCULARITY AND CLEAN ENDS.
12. TUBE END SURFACE MUST BE PERPENDICULAR TO THE TUBE AXIS WITHIN +/- .010.
13. PERFORM ACCEPTANCE TESTS PER LBNL SPECIFICATION M989.
14. A MARK DESIGNATING THE INSTALLED LENGTH WILL BE UTILIZED DURING FINAL INSTALLATION OF THE FEEDBOX ASSEMBLY. MARK, SCRIBE OR ETCH THIS LOCATION IN A PERMANENT MANNER, SUBJECT TO LBNL APPROVAL, TO AN ACCURACY OF +/- 0.063".
15. PROVIDE A MINIMUM LENGTH OF 4.0" OF STRAIGHT, SMOOTH PIPE ON THE INDICATED SIDE OF THE INSTALLED LENGTH MARK FOR PIPE WELDING DURING FINAL INSTALLATION OF THE FEEDBOX ASSEMBLY.
16. PIPE MUST BE STRAIGHT AND SMOOTH (NO BUMPS) FOR 1.5" ON EITHER SIDE OF THE CENTER-PLANE OF THE SUPPORT.
17. CAP BOTH ENDS OF PIPE TO FACILITATE ACCEPTANCE TESTS.
18. INSTALL TEMPERATURE SENSOR PER LHC SPECIFICATION LHC-QIT-AP-0002. SENSOR TO BE PROVIDED BY LBNL.
19. ALL PIPES TO BE INSULATED PER MLI SPECIFICATION PROVIDED BY VENDOR AND SUBJECT TO LBNL APPROVAL. IN LOCATIONS WHERE PIPES PASS THROUGH SUPPORT ASSEMBLIES, INSULATION IS TO BE WRAPPED WITH KAPTON TAPE FOR PROTECTION FROM ABRASION DURING THERMAL CYCLING.

13	-	4	TUBE, PER ASTM A269	SS 304L
12	-	1	HTS MANIFOLD PIPE CAP	SS 304L
11	-	4	TUBE, PER ASTM A269	SS 304L
10	-	1	TUBE, PER ASTM A269	SS 304L
9	-	1	2-3/4 CONFLAT, MDC 110012	SS 304L
8	25M856	1	PIPE HANGER	SS 304L
7	-	1	HTS MANIFOLD HEADER, SS TUBING	SS 304L
6	-	1	TUBE, PER ASTM A269	SS 304L
5	-	1	TUBE, PER ASTM A269	SS 304L
4	-	1	Ø5/16" X 1/16" FLAT PLATE ORIFICE	SS 304L
3	-	4	BRAIDED FLEX HOSE, 1/2" ID X 2.3' LL	SS 300 SERIES
2	-	1	BRAIDED FLEX HOSE, 3/4" ID X 5' LL	SS 300 SERIES
1	25M970	1	THERMOMETER MOUNTING PAD 11	CDA 10100
ITEM	PART NO.	REQD	DESCRIPTION	MATERIAL
SHOP ORDERS				
13	-	4	TUBE, PER ASTM A269	SS 304L
12	-	1	HTS MANIFOLD PIPE CAP	SS 304L
11	-	4	TUBE, PER ASTM A269	SS 304L
10	-	1	TUBE, PER ASTM A269	SS 304L
9	-	1	2-3/4 CONFLAT, MDC 110012	SS 304L
8	25M856	1	PIPE HANGER	SS 304L
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1	25M970	1	THERMOMETER MOUNTING PAD 11	CDA 10100
ITEM	PART NO.	REQD	DESCRIPTION	MATERIAL
ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA - BERKELEY				
LHC IR FEEDBOX CRYOGENICS				
DH VENT PIPE, DBX6, IPS LEFT				
MICROFILMED: DWG. TYPE: SHOWN ON: SCALE: 1/4" = 1' DO NOT SCALE PRINTS				
DATE: 24-Sep-03				
DATE: 8-Nov-02				
DATE: 25-Jul-02				
PATENT CLEAR: DESIGN ACCT. NO. CATEGORY CODE: DWG. NO. SIZE: REV.				
ZSLCE2 LH2003 2516366 C				

